

**Size:** 5,215 acres  
**Mission:** Conducted long-range bombardment and air refueling operations  
**HRS Score:** NA  
**IAG Status:** None  
**Contaminants:** Petroleum, pesticides, heavy metals, and solvents  
**Media Affected:** Groundwater and soil  
**Funding to Date:** \$39.9 million  
**Estimated Cost to Completion (Completion Year):** \$29.5 million (FY2012)  
**Final Remedy in Place or Response Complete Date for BRAC Sites:** FY2002



## Gwinn, Michigan

### Restoration Background

In July 1993, the BRAC Commission recommended closure of K.I. Sawyer Air Force Base, inactivation of the 410th Wing, and transfer of the base's B-52H aircraft to Barksdale Air Force Base, Louisiana. In September 1995, the installation officially closed.

Environmental studies have been in progress at the installation since FY84. Twenty-five sites were identified as requiring additional investigation. Sites include landfills, fire training areas, underground storage tanks (USTs), aboveground storage tank spill sites, drainage pits, and a drainage pond. Petroleum hydrocarbons, trichloroethene (TCE), tetrachloroethene, vinyl chloride, 4-methyl phenol, and heavy metals are the primary contaminants affecting soil and groundwater.

Interim Remedial Actions include removal of USTs; removal and cleanup of contaminated soil; installation of 14 groundwater extraction wells; construction and operation of a groundwater treatment plant; removal of fuel from groundwater at the former petroleum/oil/lubricant (POL) storage area; and installation of pilot-scale bioventing systems. A downgradient fuel recovery trench is also being used to capture contaminants at the leading edge of the POL Area fuel plume. Remedial Investigation (RI) is still under way at three Installation Restoration Program sites. No Further Action closure documents are complete for five sites. An impermeable membrane cap has been installed at Landfills 3 and 4.

Annually, a comprehensive RI report on the basewide groundwater monitoring plan is completed. RCRA closure plans have been developed for the Explosive Ordnance Disposal (EOD) Range. The installation completed its Environmental Baseline Survey in FY94 and received regulatory concurrence on these designations. A Restoration Advisory Board (RAB) was formed in FY94. The installation's BRAC cleanup team schedules meetings immediately before RAB meetings

to facilitate communication between the two groups. In FY95, the Local Redevelopment Authority submitted a reuse plan. In addition, the installation began leasing property and completed a redevelopment plan.

Seven large aboveground fuel storage tanks and the aircraft hydrant refueling system were removed. All USTs have been removed except three, all of which have a planned reuse. RCRA corrective measures were completed at two interim status hazardous waste storage facilities. The EOD Range and a grenade range were cleared of ordnance residues. Investigation and closeout of approximately 200 environmental areas of concern (AOCs) were completed.

### FY98 Restoration Progress

RI's were completed at FT-06, LF-1, LF-4, and ST-04. Investigations were completed, and several AOCs were closed out. The purge-and-treat groundwater cleanup system at DP-02 began operating, as did the bioventing system and the downgradient trench at ST-04. Five regulated USTs were removed. A geophysical survey and a limited excavation determined that a landfill cap was not necessary at LF-01.

Four Remedial Action Plans (RAPs) were completed. RAPs at ST-04, FT-06, and LF-01 were delayed due to problems regarding the nature or location of site contaminants. The EOD Range closure was delayed due to regulatory requirements for additional sampling.

The abstract for the BRAC Cleanup Plan was updated. RAB members toured cleanup sites and reviewed documents and decisions before finalization.

### Plan of Action

- Complete Remedial Actions for EOD Range in FY99
- Finalize RAP for FT-06, LF-01, and ST-04 in FY99
- Continue operating the purge-and-treat system at DP-02 and the bioventing system at ST-04 in FY99
- Operate a pilot-scale soil vapor extraction (SVE) system in FY99
- Initiate long-term operations of the DP-02 purge-and-treat system, the bioventing/contaminant removal systems at ST-04, and the air-sparging/SVE system at FT-06 in FY00
- Initiate long-term monitoring of landfill caps in FY00

### SITES ACHIEVING RIP OR RC PER FISCAL YEAR

